

Specification Sheet

McCrometer CONNECT® A753 addWAVE GSM/GPRS Field Monitoring Station

Features & Benefits:

Cellular Technology

Ideal for frequent monitoring and reporting in remote areas

Power Management

Includes a rechargeable 6.2V NiMH battery, extremely low-power usage, and ideal for use with solar power

Versatility

The station includes 59 input/output ports for monitoring a wide variety of sensors from water level or flow to complete weather stations including ET, frost, and multi-depth soil moisture parameters. Easy to use waterproof connectors makes installing sensors simple and convenient

Value

A reliable, robust, & scalable system that is easy to deploy and maintain. It features a flash memory allowing new features and firmware to be easily uploaded. This system will provide many years of performance and low cost of ownership



McCrometer CONNECT A753
addWAVE GSM/GPRS Field
Monitoring Station shown with
optional solar panel and
user-supplied mast

Description

The A753 addWAVE GSM/GPRS field station is designed to meet the most stringent requirements for a universal telemetry station. This system is ideal for applications ranging from soil moisture monitoring, WMO-compliant weather recording, AMR, flood warning, water level, frost monitoring, water quality monitoring, and much more.

The A753 addWAVE GSM/GPRS field station is a robust system featuring a durable aluminum housing with an integrated battery and a quad-band Motorola GPRS modem. This low-powered unit makes it a perfect solution for remote sites where AC power is not available.

Its integrated high resolution data logger provides support for up to 59 different sensor inputs at once. The A753 has a large local memory to protect data from being lost if transmission is interrupted; approximately 4-6 months when recording data at 15-minute intervals.

The station can be configured to record data at user defined intervals (as frequently as every minute). It can also be set to deliver the recorded data at whatever regular interval the user desires (every 15-minutes, every hour, etc.).

This system also offers event reporting to notify users when a specific event has happened in the field. It is compatible with a wide range of sensors, making it an ideal choice for wireless irrigation crop management.

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Specifications

I/O-Ports:	12x analog in (0 to 2.5VDC, including 3x 0 to 150 mV) 4x digital in/out (0 to 3V TTL) 2x pulse counter (50Hz) 2x pulse counter (500Hz) 40x SDI-12 values
Resolution:	16-Bit @ 0 to 2.5V
Measuring Method:	Synchronous & asynchronous
Sampling Interval:	10 Sec. to 12 Hr.
Sensor Excitation:	Unregulated battery 5.6 to 7.2V / Regulated battery from 3.3 to 5.5V
Connectors:	4x Binder M9 7-pin to sensors 1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector
Internal Memory:	2MB for up to 500,000 values
Antenna:	2dBi, 850/900/1800/1900 MHz, omnidirectional
Tx Output Power:	2W (depends on frequency)
Transmission Distance:	22 miles max
Type Approvals:	FCC Part 15, Industry Canada, R&TTE, ACMA Australia, etc.
Battery:	NiMH battery, 6.2V, 3.1Ah
Operating Time:	Powersave mode: 6 months (without charging)
Temperature Range:	-4°F to +149°F (-20°C to +65°C)
Case:	Powder-coated aluminum, IP 67
Dimensions:	6.3 x 2.36 x 3.15 in.
Mounting:	1.5" mast, opt. wall mount
Weight:	2.65 lb.

Ordering Information

Description	Part Number
A753 addWAVE GSM/GPRS	100.753.010

Optional Accessories

Description	Part Number	Description	Part Number
A502 Signal converter (4 to 20mA --> 0 to 2.5V)	200.733.502	Solar Panel, 460mA	200.733.522
LED tool	200.720.530	Wall mounting kit	900.000.423
Antenna, Omni, 2dBi, GSM Quad-band, including mast bracket and 5m cable	900.000.567	Battery, Lithium-Thionyl, 14.5Ah	800.000.277
AC Power Supply	200.720.523	Activation Switch for operation with Lithium Battery	200.720.560

